

ABSTRACT

The present invention relates to a spread spectrum communications system, in which a mobile station  
5 includes a matched filter which can be divided into segments.

On initial acquisition, when a frequency deviation between the expected receiving frequency of the mobile station and the transmitting frequency of the base  
10 station is expected to be relatively large, the device can operate in a first synchronisation mode, in which the filter is used divided into segments. On searching for alternative cells, when the frequency deviation is expected to be smaller, the device can operate in a  
15 second synchronisation mode, in which the filter is used undivided.

Thus, in the first mode, a reduced filter length avoids the difficulties caused by frequency deviation, while, in the second mode, an increased filter length  
20 allows faster acquisition.

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